

OWNER'S GUIDE

OUTDOOR POWER EQUIPMENT
for all seasons

Spring



Summer



Fall



Winter



22" SELF- PROPELLED ROTARY MOWERS

Model Numbers
126-220-000
126-222-000

Important:
Read Safety Rules and
Instructions Carefully

Thank you for purchasing
an American-built product.

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Instructions given with this symbol are for personal safety. Be sure to follow them.

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



WARNING

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



WARNING

To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

TRAINING

1. Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
4. No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
5. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Do not wear loose fitting clothing that could get caught on the mower.
4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Mow only in daylight or in good artificial light.
9. Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause

serious personal injury. Keep a firm hold on the handle and walk, never run.

10. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.

OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
7. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
11. Never operate mower without proper guards, plates or other safety protective devices in place.

MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.



This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

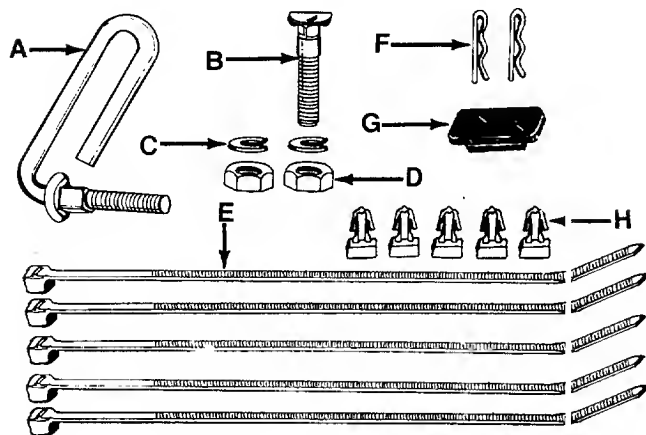


FIGURE 1.

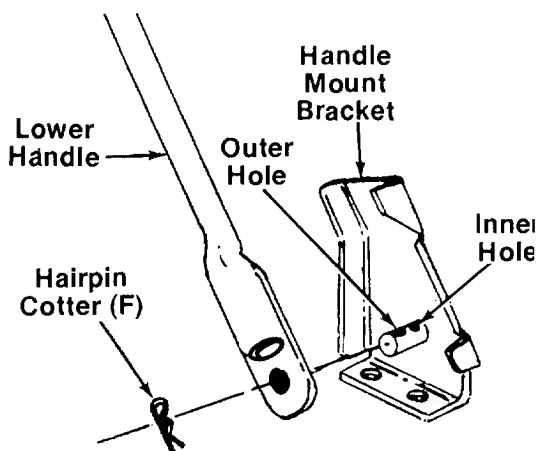


FIGURE 2.

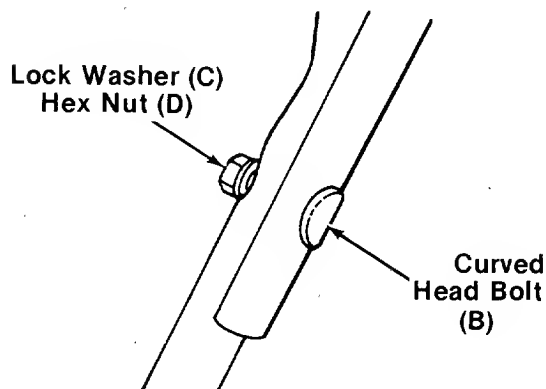


FIGURE 3.

ASSEMBLY INSTRUCTIONS



Reference to right or left hand side of the mower is observed from the operating position.

Contents of Hardware Pack: (See figure 1)

- A (1) Rope Guide Bolt
 - B (1) Curved Head Carriage Bolt
 - C (2) Lock Washers 5/16" I.D.
 - D (2) Hex Nuts 5/16-18 Thread
 - E (5) Cable Ties
 - F (2) Hairpin Cotters
 - G (1) Plastic Plug (May Be Already Assembled)
 - H (5) Plastic Cable Anchors
 - I (1) Cable Clamp (Not Shown)
1. Remove lawn mower and loose parts from carton. Make certain all parts and literature have been removed from the carton before the carton is discarded.
 2. Extend the control cables and place on the floor. Be careful not to bend or kink control cables.
 3. Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle mount brackets. Make certain the instruction label on the lower handle can be read from the operating position. Secure with hairpin cotters (F) in inner holes on weld pins. See figure 2.



There are two (2) holes in the handle mount brackets. Place the hairpin cotter in the inner hole for operation. Outer hole is for storage.



It may be necessary to bend the ends of the lower handle outward slightly to obtain a tight fit against the handle mount brackets.

4. Place the upper handle in position over the lower handle. The control housing must be on the left hand side of the handle. Secure the left hand side of upper handle using the curved head bolt (B), lock washer (C) and hex nut (D) as shown in figure 3.



The right hand side of the handle will be secured with the rope guide bolt. However, left handed operators may assemble the rope guide bolt to the left side of the handle for easier starting.

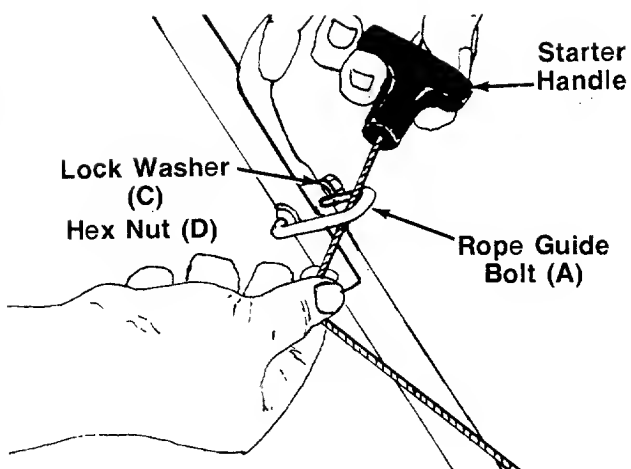


FIGURE 4.

5. Insert the rope guide bolt (A) through the right hand side of upper and lower handle. Secure with lock washer (C) and hex nut (D), finger tight only. See figure 4.



Starter rope will be assembled in step 9.

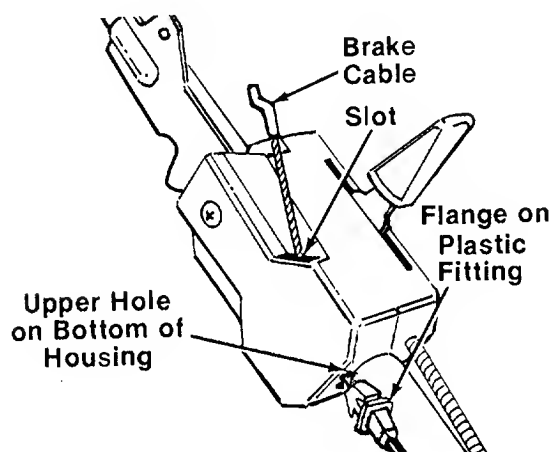


FIGURE 5.

6. The brake cable is attached to the engine. Route the brake cable under the lower handle. Place the end of the brake cable into the upper hole on the bottom of the control housing, and through the slot in the side of the housing as shown in figure 5. The angle of the flange on the plastic fitting must be positioned downward as shown. Be careful not to bend or kink the cable.



Brake cable must be assembled as shown for proper blade brake operation.

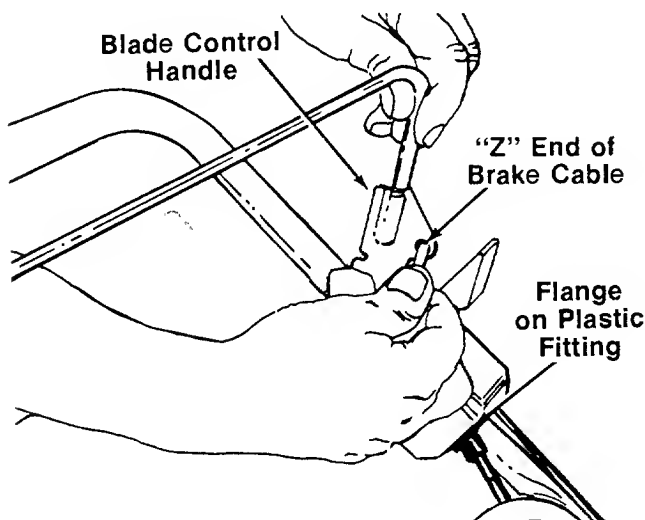


FIGURE 6.

7. Snap the plastic fitting on the end of the cable into the control housing. Hook the "Z" end of the brake cable into the hole in the blade control handle. See figure 6.
8. The starter rope is wound around the starter handle. Maintain the tension on the rope as you unwind it.
9. Slip the starter rope into the rope guide bolt as shown in figure 4. If more slack is needed in the starter rope, disconnect and ground the spark plug wire. Depress the blade control handle and pull additional rope out from the engine.
10. Tighten the hex nut on the rope guide bolt securely.

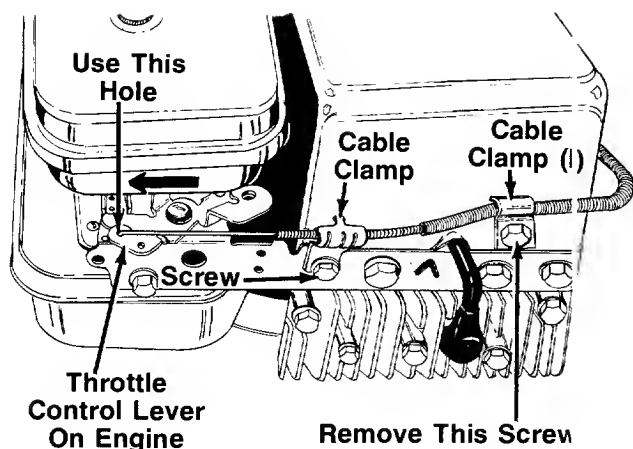


FIGURE 7.—Standard Engine

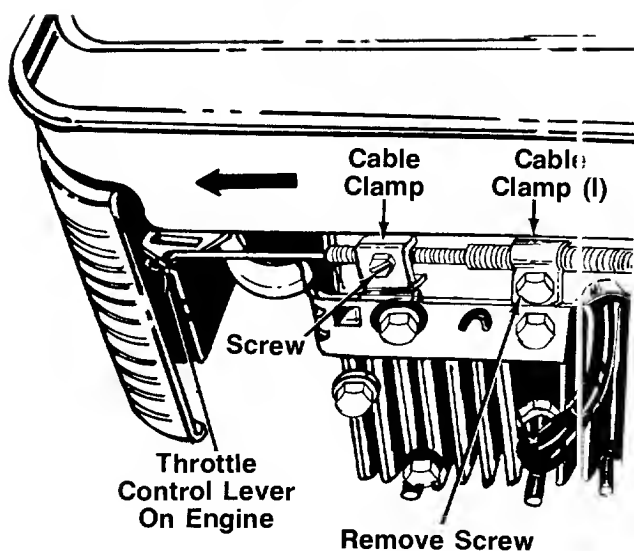
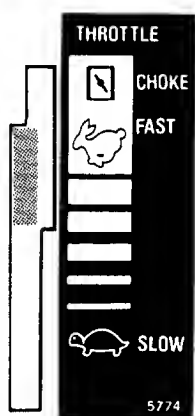


FIGURE 7A.—Deluxe Engine

Steps 11 through 14 are for **standard** Briggs and Stratton engines. If your unit is equipped with a **deluxe** Briggs and Stratton engine (see figure 7A), follow steps 11A through 14A.

Standard Engines:

11. Place the throttle control lever on the handle in FAST position.
12. Route the throttle control cable under the lower handle and inside the handle mount bracket. Hook the "Z" end of the throttle control cable into the **outside** hole in the control lever on the engine. See figure 7.
13. Remove the screw on the cable clamp shown in figure 7. Slip the control casing under the clamp. Replace the screw, but do not tighten (cable must still move freely beneath the clamp).
14. Push the throttle control lever on the engine to the full open position as shown in figure 7. Tighten the screw to secure the throttle control cable in this position.

Deluxe Engines:

- 11A. Move throttle control lever on handle forward until it stops in FAST position (**do not** push all the way forward to CHOKE position). See figure 7A.
- 12A. Route the throttle control cable under the lower handle and inside the handle mount bracket. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.
- 13A. Using a 7/16" wrench, remove the screw on the engine shown in figure 7A.
Remove the screw on the cable clamp shown in figure 7A. Slip the control casing under the clamp. Replace the screw, but do not tighten (cable must still move freely beneath the clamp).
- 14A. Slide the throttle control lever on the engine as far toward the outside of the engine as it will go **easily** (just until resistance is felt) as shown in figure 7A. (**Do not** force it into the extreme outside position, which is the CHOKE position). Tighten the screw to secure the throttle control cable in this position.

All Units:

15. Loosen the screw on the clamp on the side of the engine. Slip the cable casing under the clamp to secure the cable **away from the muffler**. Be careful not to bend or kink the cable. Tighten the screw.
16. Secure cable casing to the front of engine with cable clamp (I) provided in hardware pack and screw removed from engine in step 13 (or 13A). Do not overtighten.

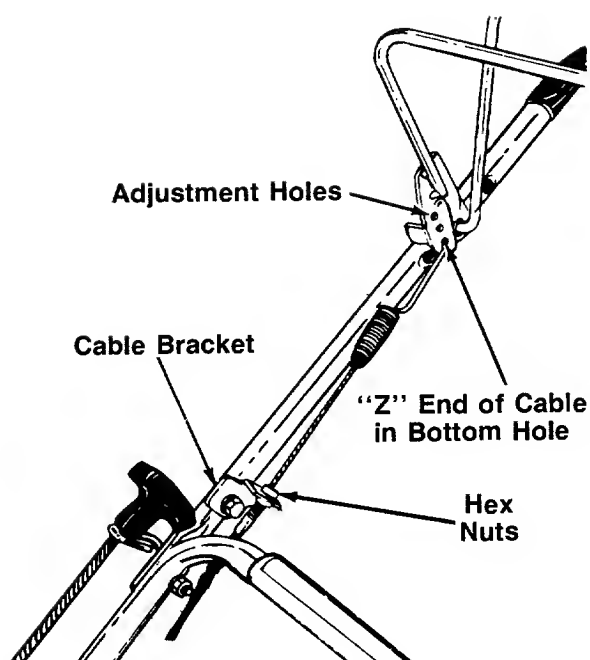


FIGURE 8.

17. The drive clutch cable is attached to the drive cover, and has a spring on one end. Route the clutch cable inside the handle mount bracket and under the lower handle. Hook the spring on the end of the cable into the bottom hole on the drive clutch control handle. See figure 8.

18. Remove one hex nut and the lock washer from the end of the cable casing. Pull down on the cable casing, and slip the control wire through the slot in the cable bracket. Push the end of the cable casing up through the hole in the cable bracket. Replace the lock washer and hex nut. **Adjust as specified in step 19.**

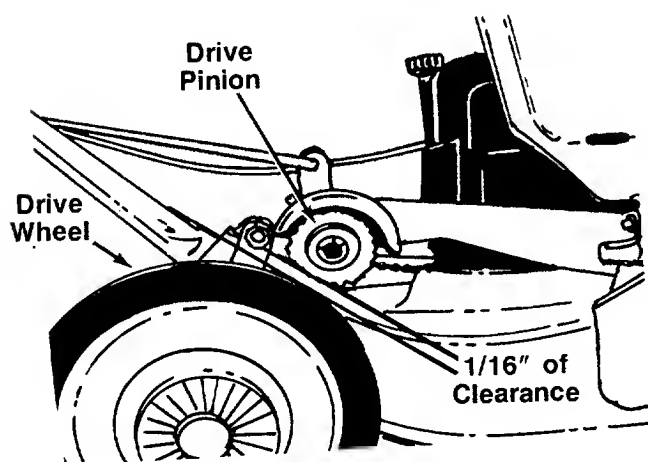


FIGURE 9.

19. Adjust the clutch cable by adjusting the hex nuts at the cable bracket. Correct adjustment is as follows.

The drive pinions should be approximately $1/16$ " from the drive wheels when the clutch is disengaged (clutch control handle is **not** squeezed against upper handle). See figure 9.

When the clutch control is engaged, the drive pinions should press against the tires.

If further adjustment is needed, refer to adjustment section of this manual.

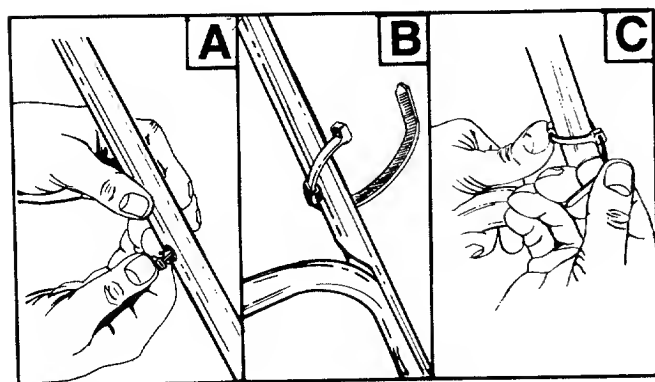


FIGURE 10.

20. Secure all control cables to the handles as follows.

A. Insert plastic cable anchors (F) into holes provided on the inside of the handles. Two go on each side of the lower handle (one near the top and one near the bottom), and one goes on the left side of upper handle. See figure 10A.

B. Slip cable ties (G) through cable anchors so the teeth in the cable ties will be against the handle (smooth side is away from the handle). See figure 10B.

C. Secure the cables to the handles with the cable ties. See figure 10C.

D. Cut off excess ends of cable ties.

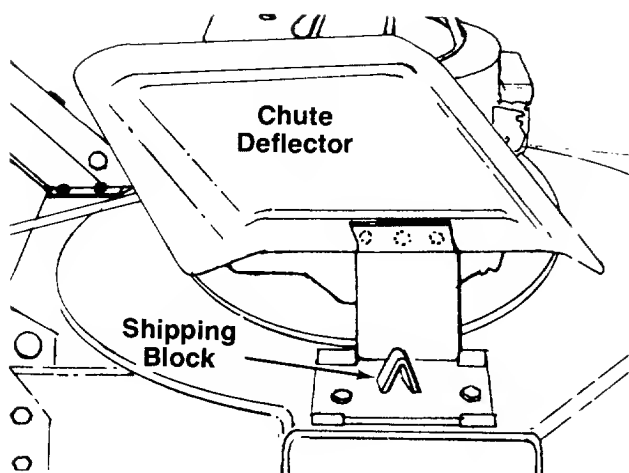


FIGURE 11.

21. If plastic plug is not already assembled, insert plastic plug (E) into hole in the top rear of the deck by slipping one end of plug into hole, then pressing down on the other end of plug.
22. The chute deflector on your mower is held in an upright position by a shipping block. This block is used for shipping purposes only. It **must** be removed and discarded before the mower is put into operation. See figure 11.
23. Attach hub caps (optional) to the wheels by lining up cap with hub of wheel. Push to snap in place.
24. Make certain **all** nuts and bolts are tightened securely.

CONTROLS

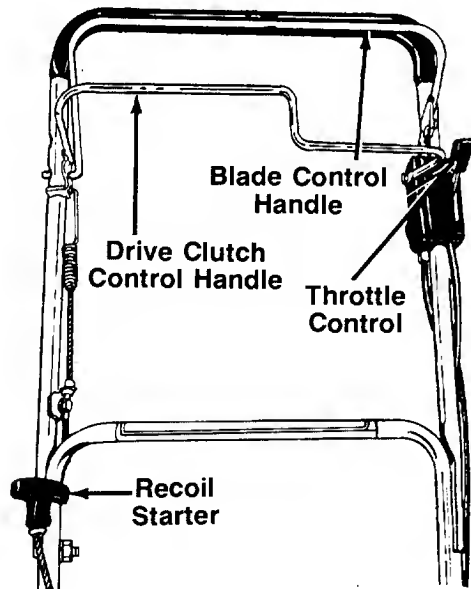


FIGURE 12.

The blade control handle is located on the upper handle of the mower. See figure 12. The blade control handle must be depressed in order to operate the unit. Release the blade control handle to stop the engine and blade.



WARNING

The blade will be rotating whenever the engine is running.

THROTTLE CONTROL

The throttle control is located on the left side of the upper handle. It is used to regulate the engine speed.



WARNING

The throttle control cannot be used to stop the engine.

RECOIL STARTER

The recoil starter handle is attached to the handle. See figure 12. Stand behind the unit in the operating position to start the unit.

DRIVE CLUTCH CONTROL

Squeezing the drive clutch control handle engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the drive clutch control to slow down when negotiating an obstacle, making a turn or stopping. See figure 12.

WARNING

THIS CONTROL MECHANISM IS A SAFETY DEVICE. NEVER ATTEMPT TO BYPASS ITS OPERATIONS

OPERATION



FIGURE 13.

Keep hands and feet away from the chute area on cutting deck. See figure 13.

NOTE

For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment section.

BEFORE STARTING

1. Fill sump with oil as instructed in the separate engine manual packed with your unit.
2. Fill fuel tank, using clean, fresh, unleaded, low-lead or regular grade leaded gasoline. Fill tank completely!
DO NOT MIX OIL WITH GASOLINE.
3. Attach spark plug wire to spark plug.
4. **Deluxe Briggs and Stratton engines:** Open fuel shut-off valve. See figure 14.

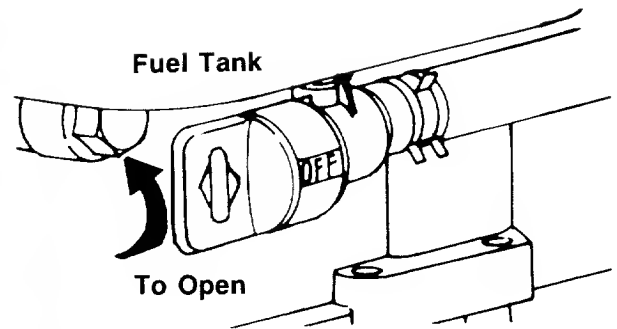


FIGURE 14.

5. Before each use, check drive clutch adjustment. When the clutch handle is engaged, the drive pinions should press against the tires. When the clutch handle is released, the pinions should clear the wheels by approximately 1/16". See drive clutch adjustment on page 10 for further details.



When starting the unit for the first time, face the mower against a solid object such as a wall, fence, etc. Start the unit, and if it shows any signs of motion with the drive clutch control disengaged, shut the engine off immediately. Refer to page 10 for further instructions on the drive clutch adjustment.

TO START ENGINE AND ENGAGE BLADE

1. Move the throttle control lever to FAST or START position.

NOTE

On units with deluxe Briggs and Stratton engines, move throttle control lever to CHOKE position.

2. Standing behind the unit, depress the blade control handle and hold it against the upper handle. Be certain the drive clutch handle is released.
3. Grasp the recoil starter handle and pull back rapidly, extending rope fully. Return it slowly to the rope guide bolt.
4. After engine starts, move throttle control to desired engine speed.

TO STOP ENGINE AND BLADE

1. Release the blade control handle to stop the engine and blade.



The blade continues to rotate for a few seconds after the engine is shut off.

2. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

USING YOUR ROTARY MOWER

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator and others.

Operate a new engine at intermediate speeds and light load for the first few hours as you would a new automotive engine.

For best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.



IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS



Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

CUTTING HEIGHT ADJUSTMENT

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has nine positions. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress the lever towards wheel and move wheel and lever assembly to desired position. See figure 15.

Cutting height will be raised as the rear levers are lowered and the front levers are moved toward the front of the unit. Cutting height will be lowered as the rear levers are raised and the front levers are moved toward the rear of the unit. All wheels must be positioned at the same relative height.

For rough or uneven lawns, move the wheels to a position which will give a higher cutting height.

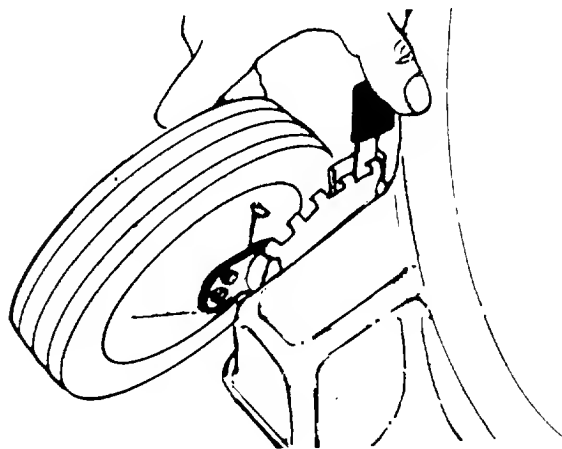


FIGURE 15.

DRIVE CLUTCH ADJUSTMENT

The drive pinions should be approximately 1/16" from the drive wheels when the clutch is disengaged (clutch handle is released). Refer to figure 9.

If there is not 1/16" of clearance, adjust the hex nuts at the cable bracket until 1/16" of clearance is obtained and the drive mechanism engages properly.

If additional adjustment is needed, unhook the cable from the clutch handle and move it to the next higher adjustment hole provided. Refer to figure 8. Then readjust the hex nuts at the cable bracket.

CHAIN ADJUSTMENT

Check for correct chain adjustment and alignment after first five to ten hours of operation. Adjust as follows:

1. Loosen (do not remove) the hex bolt on each side of the pinion pivot plate. See figure 16.

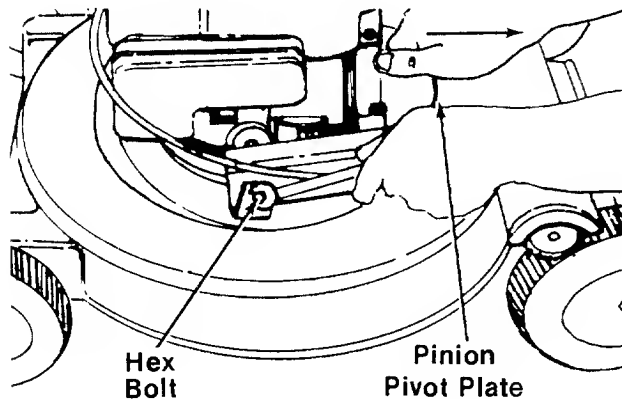


FIGURE 16.

2. Pull back on the left side of the pivot plate, by hand, until the proper chain tension is achieved. Tighten the hex bolt.
3. Pull back on the right side of the pivot plate until the clearance between the pinion and wheel is equal on both sides. Tighten the hex bolt.
4. Recheck for correct adjustment periodically.

THROTTLE

The throttle control wire assembly can be adjusted if necessary. Refer to steps 11 through 14 of assembly instructions.

CARBURETOR ADJUSTMENTS



If any adjustments are made to the engine while the engine is running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

Refer to the separate engine manual packed with your mower for carburetor adjustment information.

LUBRICATION



Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Control—Lubricate the pivot points on the blade control handle and the brake cable at least once a season with light oil. The blade control must operate freely in both directions.

Chute Deflector—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work freely.

Wheels—Mower may be provided with ball bearing wheels. Lubricate at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

Engine—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

Chain—The chain should be lubricated periodically with a few drops of light oil to prevent any rust or binding. Use very little or no oil if unit is being used in a dusty or sandy area.

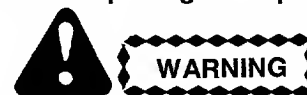
MAINTENANCE



When tipping the unit, empty the fuel tank and keep engine spark plug side up.

CUTTING BLADE

A. Removal for Sharpening or Replacement



Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blade.

Remove the large bolt and lock washer which holds the blade and adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.



CAUTION

Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

It is recommended that the blade always be removed from the adapter for the best test of balance. The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max
5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, **all** nuts and bolts must be checked periodically for correct tightness.

DECK

The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.



NOTE

Do not direct the stream of water at a hot engine as damage to the engine may result.

ENGINE OIL

Check oil level before starting engine and after every 5 hours of operation. ADD oil as necessary to keep level to full mark on dipstick. Before removing dipstick, clean area around dipstick to prevent dirt from entering oil fill tube. Engine should be in a level position when checking oil.

Change oil after first 5 hours of operation. Thereafter change every 25 hours. Change oil while engine is warm. Oil may be drained thru oil drain on bottom of the engine. Oil capacity 1 1/4 pints.

AIR CLEANER

Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

To service the air cleaner, refer to the separate engine manual packed with your unit.

SPARK PLUG

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Store mower in a dry, clean area.



NOTE

When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially chains, springs, cables and all moving parts.



The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.

GRASS CATCHER Model 065 is available as optional equipment for the mower shown in this manual.



1. DO NOT operate the mower without the entire grass catcher or chute deflector in place.
2. DO NOT operate the mower without the protective shield on the rear of the deck in place.



Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0217.

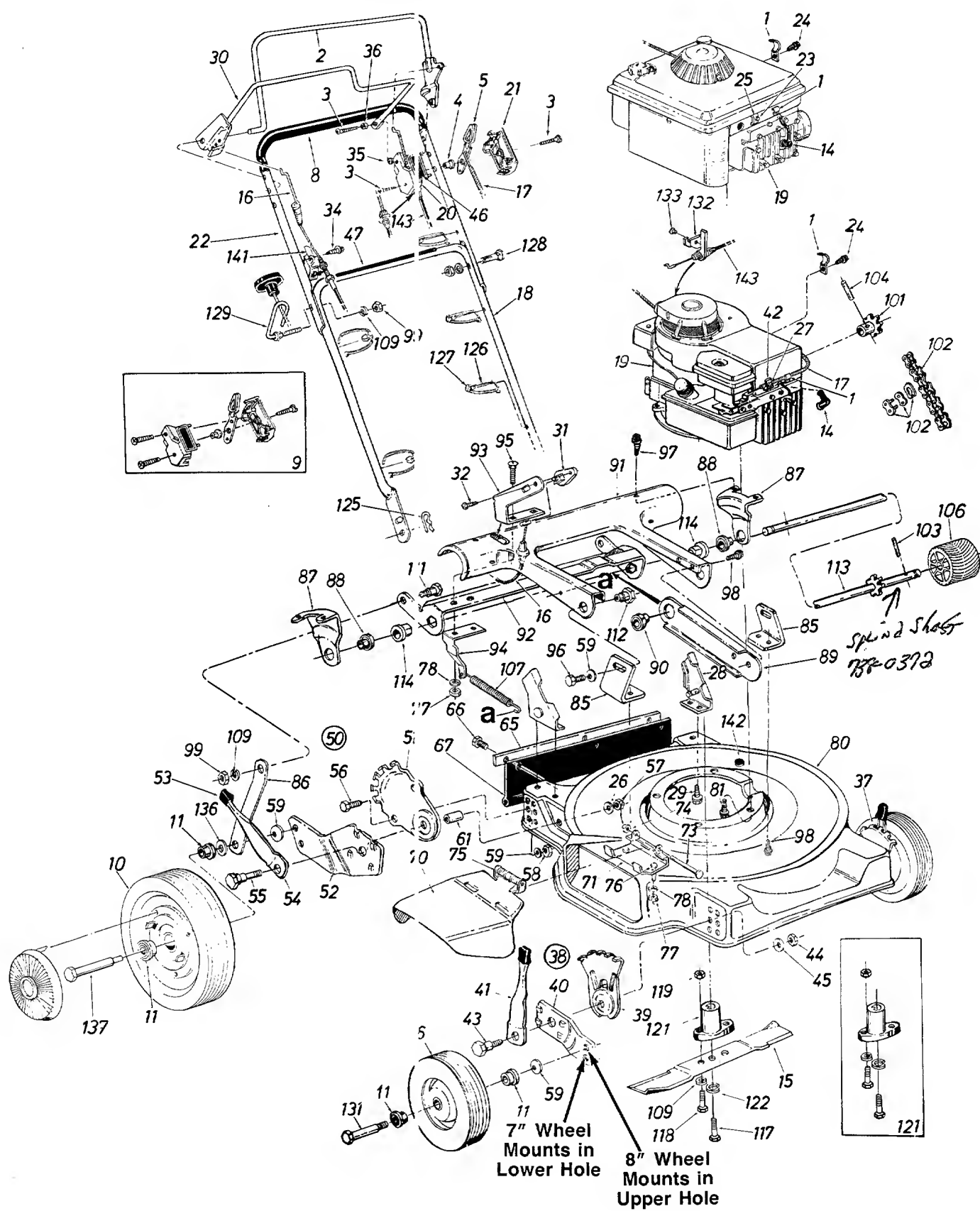
Trouble Shooting Chart

Problem	Cause	Remedy
1 Engine fails to start	A Blade control handle disengaged B Check fuel tank for gas C Fuel shut-off valve closed (on engines so equipped) D Spark plug lead wire disconnected. E Throttle control lever not in the starting position F Faulty spark plug G Carburetor improperly adjusted, engine flooded H Old stale gasoline I Engine brake engaged	A Engage blade control handle. B Fill tank if empty. C Open fuel shut-off valve. D Connect lead wire. E Move throttle lever to start position. F Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark plug. G Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting procedures. H Drain and refill with fresh gasoline. I Follow starting procedure.
2 Hard starting or loss of power	A Spark plug wire loose B Carburetor improperly adjusted C Dirty air cleaner	A Connect and tighten spark plug wire. B Adjust carburetor. See separate engine manual. C Clean air cleaner as described in separate engine manual.
3 Operation erratic	A Dirt in gas tank B Dirty air cleaner C Water in fuel supply D Vent in gas cap plugged E Carburetor improperly adjusted	A Remove the dirt and fill tank with fresh gas. B Clean air cleaner as described in separate engine manual. C Drain contaminated fuel and fill tank with fresh gas. D Clear vent or replace gas cap. E Adjust carburetor. See separate engine manual.
4 Occasional skip (hesitates) at high speed	A Carburetor idle speed too slow B Spark plug gap too close C Carburetor idle mixture adjustment improperly set	A Adjust carburetor. See separate engine manual. B Adjust to .030". C Adjust carburetor. See separate engine manual.
5 Idles poorly	A Spark plug fouled, faulty, or gap too wide B Carburetor improperly adjusted C Dirty air cleaner	A Reset gap to .030" or replace spark plug. B Adjust carburetor. See separate engine manual. C Clean air cleaner as described in separate engine manual.
6 Engine overheats	A Carburetor not adjusted properly B Air flow restricted C Engine oil level low	A Adjust carburetor. See separate engine manual. B Remove blower housing and clean as described in separate engine manual. C Fill crankcase with the proper oil.
7 Excessive vibration	A Cutting blade loose or unbalanced B Bent cutting blade	A Tighten blade and adapter. Balance blade. B Replace blade.

Note: For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.

NOTES

Models 220 and 222



Models 220 and 222

PARTS LIST FOR MODELS 220 AND 222 ROTARY MOWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	12894		Casing Clamp		56	710-0216		Hex Bolt 3/8-16 x .75	
2	14321		Control Handle Ass'y.—L.H.		57	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
3	710-0796		Truss Mach. Hi-B Tap Scr. #12 x 1.5"		58	712-0798		Hex Nut 3/8-16 Thd.*	
4	731-0524		Control Disc Pin		59	736-0105		Bell-Wash. .40 I.D. x .88 O.D.	
5	731-0528		Throttle Control Lever		61	750-0503		Spacer .383 I.D. x .503 O.D.	
6	**		Front Wheel Ass'y. Comp.		65	14846		Retaining Strip	
8	718-0145		Grip (Optional)		66	710-0776		Hex AB-Tap Scr. 1/4 x .62	
9	753-0360		Control Housing Comp.		67	731-0575		Rear Flap Ass'y.	
10	734-1204		Rear Wheel Ass'y. Comp.		70	14944		Chute Deflector Ass'y.	
11	741-0180		Fl. Ball Brg. 1/2" I.D.		71	11130		Adapter Plate	
12	736-0169		L-Wash. 3/8" I.D.*		73	711-0555		Pivot Pin	
13	†		Hub Cap		74	726-0106		Push Nut 1/4"	
14	735-0639		Spark Plug Insulator		75	732-0253		Torsion Spring	
15	742-0125		22" Blade		76	710-0289		Hex Bolt 1/4-20 x .50 Lg.*	
16	746-0607		Clutch Cable w/Spring—33"	N	77	712-0287		Hex Nut 1/4-20 Thd.*	
17	746-0632		Throttle Wire—53"	N	78	736-0329	462	L-Wash. 1/4 I.D.*	
18	749-0373		Lower Handle (Chrome)		80	14999		22" Deck Ass'y.	
	749-0372		Lower Handle (Painted)		81	710-0654		Hex TT-Tap Scr. 3/8-16 x 1.0	
19	—		Engine		85	14759		Pivot Brkt.	
20	731-0816		Clutch Panel Half	N	86	16005		Link	
21	731-0817		Control Panel Half	N	87	14757		Axle Brkt.	
22	749-0536		Upper Handle (Chrome)		88	741-0180		Fl. Ball Brg. 1/2" I.D.	
	749-0538		Upper Handle (Painted)		89	14877		Brg. Support	
23	710-0227		Hex AB-Tap Scr. #8 x .50"		90	741-0180		Fl. Ball Brg. 1/2" I.D.	
24	710-0429		Hex B-Tap Scr. #10 x .38"		91	16319		Pinion-Pivot Cover	
25	751-0442		Casing Clamp	N	92	16332		Drive Engagement Cam	
26	736-0242		Bell-Wash. 5/16" I.D.		93	16534		Engagement Arm—L.H.	N
27	710-0429		Hex "B"-Tap Scr. #10 x .38"		94	16536		Spring Bracket	N
28	12935		Handle Brkt. Ass'y.—L.H.		95	710-0134		Carriage Bolt 1/4-20 x .62	
29	710-0603		Hex B-Tap Scr. 5/16-18 x .5"		96	710-0168		Hex Bolt 3/8-16 x .50 Lg.*	
30	16391		S.P. Bail Ass'y.		97	710-0776		Hex AB-Tap Scr. 1/4 x .62	
31	746-0606		Barrel Cable Hold-Down R.H.		98	710-0892		Hex AB-Tap 1/4 x .62"	
32	710-0429		B-Tap Scr. #10 x .38 Lg.		99	712-0267		Hex Nut 5/16-18 Thd.*	
33	12936		Handle Brkt. Ass'y.—R.H.		101	713-0308		10T Sprocket Ass'y.	
34	710-0726		Hex Wash. AB-Tap Scr. 5/16 x .75"		102	713-0311		#48 Chain 1/2" Pitch 50 Links	
35	736-0370		Spr-Wash. .206 I.D. x .448		103	715-0246		Master Link (Service Only)	
36	750-0649		Spacer .23 I.D. x .30 O.D.		104	715-0247		Spring Pin Spir. 3/16 Dia. x 1.25	
37	14579		Front Height Adj. Ass'y.—L.H.					Spring Pin Spir. 3/16 Dia. x 1.0	
38	14578		Front Height Adj. Ass'y.—R.H.		106	731-0807		Drive Pinion	N
39	15261		Height Adj. Plate		107	732-0428		Extension Spring 4.25 Lg.	
40	15262		Pivot Bar		109	736-0119		L-Wash. 5/16 I.D.*	
41	14832		Spring Lever Ass'y. w/Knob		111	738-0155		Shld. Bolt .437 Dia. x .162	
42	751-0369		Casing Clamp		112	738-0529		Shld. Nut .625 Dia. x .165	
43	738-0507		Shld. Bolt .50 Dia. x .430		113	738-0530		Pinion Shaft w/7T Sprocket	
44	712-0798		Hex Nut 3/8-16 Thd.*		114	741-0484		Fl. Ball Brg. .501 I.D.	
45	736-0356		Bell-Wash. .39 I.D. x 1.38 O.D.		117	710-0331		Hex Bolt 3/8-24 x 2.25	
46	777-5774		Control Label		118	710-0888		Hex Bolt 5/16-24 x 1.0—Spec.	
47	777-5776		Instruction Label		119	712-0123		Hex Nut 5/16-24 Thd.	
50	14762		Rear Height Adj. Ass'y.—R.H.		121	753-0348		Blade Adapter Kit	
	14763		Rear Height Adj. Ass'y.—L.H. (Not Shown)		122	736-0217		L-Wash. 3/8 I.D.—H.D.	
51	14764		Index Plate		125	714-0104		Intern. Cot. Pin 5/16 Dia.	
52	14765		Pivot Bar—R.H.		126	725-0157		Cable Tie	
	14766		Pivot Bar—L.H. (Not Shown)		127	726-0241		Cable Anchor	N
53	720-0190		Spring Lever Knob		128	710-0671		Curved Carriage Bolt 5/16-18 x 1.38" Lg.	
54	732-0417		Spring Lever		129	710-0842		Rope Guide Bolt	
55	738-0528		Shld. Bolt .50 Dia. x .433		131	738-0102		Front Axle Bolt	

Models 220 and 222

PARTS LIST FOR MODELS 220 AND 222 ROTARY MOWERS (CONTINUED)

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
132	14924		Cable Bracket	
133	728-0171		Pop Rivet .156" Dia. x .379	
136	736-0192		Fl-Wash. .531 I.D. x .93 O.D.	
137	738-0144		Rear Axle Bolt	
141	16309		Cable Brkt.	
142	731-0564		Plastic Plug	
143	746-0476		Control Cable—39" (Green)	
—	8222-000-6		Hardware Pack	

**FRONT WHEEL CHART			
	Waffle Tread	Twinline Tread	Smooth
7" x 1.50"	734-0893	734-0876	734-0842
8" x 1.75"	734-0812	734-0661	734-0843

*For faster service obtain standard nuts, bolts and washers locally.
If these items cannot be obtained locally, order by part number and size as shown on parts list.

If color or finish is important when ordering parts, use the appropriate color code shown below [i.e. (part no.)-462 for Red Flake Finish].

†Hub Caps Available†	
Color	Part No.
Red	731-0124
Orange	731-0254
Black	731-0354
Gray	731-0355

Color Codes

312—White	463—Toplite Red
436—Radiant Yellow	480—Brilliant Green
452—Black	483—Charcoal Grey
456—Radiant Tangerine	499—Beige
462—Red Flake	623—Silver Mist



NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

NOTE: The engine is not under warranty by the mower manufacturer...If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."



PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA Auto Electric & Carburetor Co.	BIRMINGHAM 2625 4th Ave. S. 35233
ARKANSAS Sutton's Lawn Mower Shop	NORTH LITTLE ROCK 5301 Roundtop Drive Box 368, Rt. 4 '2117
CALIFORNIA Billious	PORTERVILLE 75 North D Street 93257
COLORADO Spitzer Industrial Products Co.	DENVER 6601 N. Washington St. 80229
FLORIDA Radco Distributors	JACKSONVILLE 4909 Victor St. Box 5459 32207
	HIALEAH 7995 W. 26th Court 33016
GEORGIA East Point Cycle & Key Inc.	EAST POINT 2834 Church St. 30344
ILLINOIS Keen Edge Co.	LYONS 8615 Ogden Ave. 61534
INDIANA Parts & Sales Inc.	ELKHART 2101 Industrial Pkwy. 4516
IOWA Power Lawn & Garden Equip.	DUBUQUE 2551 J.F. Kennedy 52001
LOUISIANA Suhren Engine Co.	NEW ORLEANS 8330 Earhart Blvd. 70118
MARYLAND Center Supply Co.	TAKOMA PARK 6867 New Hampshire Ave. 20912
MASSACHUSETTS Morton B. Collins Co.	SPRINGFIELD 300 Birnie Ave. 01107
MICHIGAN Lorenz Service Co.	LANSING 2500 S. Pennsylvania .. 48910
	MOUNT CLEMENS 340 Hubbard 48043
MINNESOTA Hance Distributing Inc.	HOPKINS 420 Excelsior Ave. W. .. 55343
MISSOURI Automotive Equip. Service	KANSAS CITY 3117 Holmes St. 64109
	ST. JOSEPH 8th and Monterey 64503
	ST. LOUIS 2015 Lemay Ferry Rd. .. 63125
NEW JERSEY Lawnmower Parts Inc.	BELLMAWR 717 Creek Rd. 08030
NEW MEXICO Spitzer Eng. & Parts Co.	ALBUQUERQUE 1023 Third Ave. N.W. .. 87103
NEW YORK Gamble Dist., Inc.	CARTHAGE West End Ave. 13619

NORTH CAROLINA Smith Hardware Co.	GOLDSBORO 515 N. George St. 27530
	GREENSBORO 335 N. Green 27402
OHIO Dixie Sales Company	CARROLL Box 366, 71 High St. 43112
	CLEVELAND 7900 Lorain Ave. 44102
	WADSWORTH 687 Seville Rd. 44281
	YOUNGSTOWN 1301 Logan Ave. Box 929 44501
OKLAHOMA Victory Motors, Inc.	MUSKOGEE 605 S. Cherokee 74401
OREGON Kenton Supply Co.	PORTLAND 8216 N. Denver Ave. 97217
PENNSYLVANIA EECO Inc.	HARRISBURG 4021 N. 6th St. 17110
	WILLOW GROVE 850 Davisville Rd. 19090
	PITTSBURGH 11125 Frankstown Rd. .. 15235
	PUNXSUTAWNEY R.D. 2 15767
	SCRANTON 1133-35 Wyoming Ave. .. 18505
TENNESSEE Ace Distributors	KNOXVILLE 2103 Magnolia 37919
	MEMPHIS 3035-43 Bellbrook 38116
TEXAS Marr Brothers, Inc.	DALLAS 423 E. Jefferson 75203
	FORT WORTH 6733 Baker Blvd. Hwy. 10 76118
	HOUSTON 2409 Commerce St. 77003
	SAN ANTONIO 8610 Botts Lane P.O. Box 17867 78217
UTAH Powered Products	SALT LAKE CITY 1661 N. Beck St. 84116
VIRGINIA RBI Corp.	ASHLAND 101 Cedar Ridge Dr. 23005
WASHINGTON Equip. Northwest	SEATTLE 1410 14th Ave. 98122
WISCONSIN Wisconsin Magneto Inc.	MILWAUKEE 4727 N. Teutonia St. 53209

WARRANTY PARTS AND SERVICE POLICY

(0685)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY

INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.